



Infrastructure, environment, buildings

Mr. James Saric, Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604-3507

Subject

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (January 2009)

Dear Jim:

Attached is the 23rd monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Sincerely,

ARCADIS

Michael J. Erickson, P.E.
Associate Vice President

Attachments

Copies

Michael Berkoff, USEPA
Sam Chummar, USEPA
Michael Ribordy, USEPA
Paul Bucholtz, MDEQ (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Kathy Huibregtse, RMT Inc
J. Michael Davis, Esq., Georgia-Pacific LLC
Paul Montney, P.E., Georgia-Pacific LLC
L. Chase Fortenberry, P.G., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC

ARCADIS
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810 229 8594
Fax 810 229 8837
www.arcadis-us.com

SEDIMENTS

Date

February 16, 2009

Contact

Michael J. Erickson, P.E.

Phone

810.225.1924

Email

michael.erickson@
arcadis-us.com

Our ref

B0064539.00014 #2

US EPA RECORDS CENTER REGION 5



407034

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #23, JANUARY 2009

**PREPARED BY ARCADIS
FEBRUARY 16, 2009**

ON BEHALF OF THE KALAMAZOO RIVER STUDY GROUP (KRSG)

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #23, JANUARY 2009

**Significant Developments and Activities during the Period, Including Actions Undertaken
Pursuant to the AOC and SOW**

- On January 5, ARCADIS submitted the Final *Multi-Area Feasibility Study Technical Memorandum: Preliminary List of Possible Applicable and Relevant or Appropriate Requirements* (ARARs Tech Memo) to the United States Environmental Protection Agency (USEPA). This technical memorandum is discussed in Section 1.2.2.2 of the SOW. The draft report submitted to USEPA on February 22, 2008 was approved by USEPA on December 23, 2008.
- On January 6, ARCADIS transmitted to CDM the shape file for Plainwell No. 2 Dam Area polygons used in the draft Conceptual Design Report and the full laboratory reports for the PCB data from that area, as requested.
- On January 13, ARCADIS submitted to USEPA the revised proposed post-removal sediment sampling locations for the Plainwell Time-Critical Removal Action (TCRA). This sampling is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- On January 15, ARCADIS submitted to the Michigan Department of Natural Resources (MDNR) the 2008 Scientific Collector's Permit Report for the samples collected in the Otsego City Impoundment in November 2008. This sampling is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- On January 21, USEPA, the Michigan Department of Environmental Quality (MDEQ), and the KRSG participated in a conference call to discuss resolution of the remaining Conceptual Site Model (CSM) issues. The CSM is discussed in Section 1.2.1.4 of the SOW.
- On January 23, ARCADIS forwarded to USEPA the draft two-page summary of the Peer Review process and final report. The ecological risk assessment Peer Review process is discussed in Section 1.2.1.3 of the SOW.
- On January 25, USEPA forwarded to ARCADIS a copy of an upcoming internal intra-agency presentation by Jim Chapman titled *Peer Review of MSU Field Studies in the Floodplain of the Kalamazoo River*. The ecological risk assessment Peer Review process is discussed in Section 1.2.1.3 of the SOW.
- On January 26, USEPA approved the proposed post-removal sediment sampling locations for 2008 removal areas in the Plainwell TCRA area. This activity is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #23, JANUARY 2009

- The KRSG awaits USEPA's response to the letter requesting USEPA's data usability determination for existing data for purposes of the SRI/FS, which was submitted to USEPA on August 27, 2007. These data are described in Section 1.1.2 of the SOW.
- The KRSG awaits USEPA's comments on the remaining two Multi-Area FS documents (Section 1.2.2 of the SOW – Preliminary Remedial Technology Screening [Section 1.2.2.1] and Preliminary Permitting/Equivalency Requirements [Section 1.2.2.3]) and the Candidate Technologies and Testing Needs Technical Memorandum (Section 4.1 of the SOW), which were submitted to USEPA on February 22, 2008.

Data Collected and Field Activities Conducted during the Period

- In January, ARCADIS continued to collect surface water column samples every other day at two locations associated with the Plainwell TCRA project area (one upstream and one downstream). Table A summarizes the collected samples that were sent to TestAmerica Laboratories, Inc (TestAmerica) for analysis. This sampling is discussed in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- On January 6, four sediment cores were collected from the river as duplicates of cores collected in Phase 1 sampling at locations KPT 4-2, KPT 5-3, KPT 12-8, and KPT 16-8. These cores were processed and sent to TestAmerica for TCL, TAL, and SEM/AVS analysis as outlined in Section 3.4.1.1 of the Area 1 SRI/FS Work Plan. Table B summarizes the samples that were sent for analysis.
- On January 8, ARCADIS collected water level readings from the three staff gauges located in the Plainwell No. 2 Dam Area. Table C summarizes the data collected.

Laboratory Data Received during the Period

- In January, ARCADIS received laboratory data for the surface water samples collected between December 7 and January 20 (sample delivery groups [SDGs] TCRA104, TCRA106, TCRA108, TCRA110, TCRA112, and TCRA113). Table A presents a list of the samples for which data were received. The March 2009 monthly report will present the validated data for these samples. This sampling is discussed in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- In January, ARCADIS began to receive laboratory data for the Phase 2 sediment cores collected in Portage Creek. Table D presents a list of samples for which data were received. The March 2009 monthly report will present the validated data for these samples. SDGs SRI056 through SRI066 were received in January. This sampling is described in Section 3.4.1.3 of the Area 1 SRI/FS Work Plan.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #23, JANUARY 2009

- Validated data for the SDGs received in November are included in this monthly report. These data include the surface water samples collected between October 12 and November 11 (SDGs TCRA90, TCRA92, TCRA94, TCRA97, and TCRA99) (Table E). This sampling is discussed in Section 3.4.5 of the Area 1 SRI/FS Work Plan. In accordance with Section 2.1 of the SOW, a paper and electronic copy of this laboratory data is included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed CD also contains the electronic data deliverable for these data.
- ARCADIS awaits the remaining laboratory data for the Phase 2 sediment cores collected in Portage Creek and the data for the frozen sediment cores processed in accordance with the SRI Phase 2 sediment core analyses plan.

Problems

- No problems were encountered

Actions Taken to Correct Problems

- None

Developments Anticipated during the Next Two Reporting Periods

- In February, USEPA and KRSG will continue to correspond as necessary with the Peer Review Manager (see Section 1.2.1.3 of the SOW) in preparation for his participation at the public meeting scheduled for February 26th in Plainwell
- In February, ARCADIS is scheduled to submit a revised CSM in response to USEPA and MDEQ comments received in November. The CSM is discussed in Section 1.2.1.4 of the SOW.
- In February, ARCADIS is scheduled to submit to USEPA the revised Phase 2 work plan for the Crown Vantage area and the revised Phase 2 work plan for the focused step-out sampling in Area 1. The Crown Vantage sampling is described in Section 3.4.3 of the Area 1 SRI/FS Work Plan. The focused step-out sampling is described in Section 3.4.4 of the Area 1 SRI/FS Work Plan
- On February 15, ARCADIS is scheduled to submit to USEPA the Semi-Annual Progress Report for the period from August 2008 through January 2009. This submittal is discussed in Section 7.2 of the SOW.
- On February 15, ARCADIS is scheduled to submit to USEPA the Annual Area Work Report for Areas 2 through 7, as discussed in Section 1.1.1 of the SOW.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #23, JANUARY 2009

- By February 21, the Respondents are scheduled to submit to USEPA their updated certificates of insurance, as discussed in Paragraph 92 of the AOC.
- On February 26, USEPA is planning to hold a public update meeting in Plainwell.
- In March, ARCADIS is scheduled to perform the post-removal sediment sampling in the Plainwell TCRA area after removal of the Water Control Structure (WCS) and Phase 2 Cofferdam. This activity is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- In March, ARCADIS will forward to USEPA the validated data received in December as part of the February monthly report. This includes the surface water samples collected between November 13 and December 5 (SDGs TCRA100 and TCRA102), and the yearling smallmouth bass collected in the Otsego City Impoundment (Area 2) (SDG KAL457). This fish sampling is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table A — Upstream/Downstream Surface Water Sampling — Plainwell
TCRA — Samples Collected and Data Received in January 2009

Sample ID	Sample Date	Data Received	SDG	Sample Location
K31053	12/7/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31054	12/7/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31055	12/9/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31056	12/9/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31057	12/11/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31058	12/11/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31059	12/13/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31060	12/13/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31061	12/15/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31062	12/15/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31063	12/17/2008	1/5/2009	TCRA104_SDSP	Farmer Street Bridge
K31064	12/17/2008	1/5/2009	TCRA104_SDSP	10th Street Bridge
K31065	12/21/2008	1/8/2009	TCRA106_SDSP	Farmer Street Bridge
K31066	12/21/2008	1/8/2009	TCRA106_SDSP	10th Street Bridge
K31067	12/23/2008	1/8/2009	TCRA106_SDSP	Farmer Street Bridge
K31068	12/23/2008	1/8/2009	TCRA106_SDSP	10th Street Bridge
K31069	12/27/2008	1/19/2009	TCRA108_SDSP	Farmer Street Bridge
K31070	12/27/2008	1/19/2009	TCRA108_SDSP	10th Street Bridge
K31071	12/29/2008	1/19/2009	TCRA108_SDSP	Farmer Street Bridge
K31072	12/29/2008	1/19/2009	TCRA108_SDSP	10th Street Bridge
K31073	12/31/2008	1/19/2009	TCRA108_SDSP	Farmer Street Bridge
K31074	12/31/2008	1/19/2009	TCRA108_SDSP	10th Street Bridge
K31075 [K31076]	1/2/2009	1/19/2009	TCRA108_SDSP	Farmer Street Bridge
K31077 ¹	1/2/2009	1/19/2009	TCRA108_SDSP	10th Street Bridge
K31078	1/4/2009	1/26/2009	TCRA110_SDSP	Farmer Street Bridge
K31079	1/4/2009	1/26/2009	TCRA110_SDSP	10th Street Bridge
K31080	1/6/2009	1/26/2009	TCRA110_SDSP	Farmer Street Bridge
K31081	1/6/2009	1/26/2009	TCRA110_SDSP	10th Street Bridge
K31082	1/8/2009	1/17/2009	TCRA112_SDSP	Farmer Street Bridge
K31083	1/8/2009	1/17/2009	TCRA112_SDSP	10th Street Bridge
K31084	1/10/2009	1/17/2009	TCRA112_SDSP	Farmer Street Bridge
K31085	1/10/2009	1/17/2009	TCRA112_SDSP	10th Street Bridge
K31086	1/12/2009	1/17/2009	TCRA112_SDSP	Farmer Street Bridge
K31087	1/12/2009	1/17/2009	TCRA112_SDSP	10th Street Bridge
K31088	1/14/2009	1/17/2009	TCRA112_SDSP	Farmer Street Bridge
K31089	1/14/2009	1/17/2009	TCRA112_SDSP	10th Street Bridge
K31090	1/16/2009	1/17/2009	TCRA112_SDSP	Farmer Street Bridge
K31091	1/16/2009	1/17/2009	TCRA112_SDSP	10th Street Bridge
K31092	1/18/2009	1/30/2009	TCRA113_SDSP	10th Street Bridge
K31093	1/18/2009	1/30/2009	TCRA113_SDSP	Farmer Street Bridge
K31094	1/20/2009	1/30/2009	TCRA113_SDSP	Farmer Street Bridge
[K31095]	1/20/2009	1/30/2009	TCRA113_SDSP	Farmer Street Bridge
K31096 ¹	1/20/2009	1/30/2009	TCRA113_SDSP	10th Street Bridge
K31097	1/22/2009	NR	--	Farmer Street Bridge
K31098	1/22/2009	NR	--	10th Street Bridge
K31099	1/24/2009	NR	--	Farmer Street Bridge

See Notes on Page 2

**Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009**

Table A — Upstream/Downstream Surface Water Sampling — Plainwell
TCRA — Samples Collected and Data Received in January 2009

Sample ID	Sample Date	Data Received	SDG	Sample Location
K31100	1/24/2009	NR	--	10th Street Bridge
K31101	1/26/2009	NR	--	Farmer Street Bridge
K31102	1/26/2009	NR	--	10th Street Bridge
K31103	1/28/2009	NR	--	Farmer Street Bridge
K31104	1/28/2009	NR	--	10th Street Bridge
K31105	1/30/2009	NR	--	Farmer Street Bridge
K31106	1/30/2009	NR	--	10th Street Bridge

Notes:

NR - Data not received as of January 31, 2009

SDG - Sample Delivery Group

All samples analyzed by TestAmerica Laboratories, Inc. for PCBs and TSS

Duplicate samples are in brackets

¹MS/MSD performed on this sample.

**Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009**

Table B — Phase 2 Sediment Cores in Kalamazoo River — Cores Collected in January 2009

Location	Water Depth (ft)	Penetration (ft)	Recovery (in)	Comments	Sample ID	Interval (inches)	Description
KRT 4-2	4.6	7.0	60	-	K56240	0-2	0-5" - Dark gray/brown fine sand, little organics (leaves, wood, and twigs), and trace silt
					K56241	2-6	
					K56242	6-12	5-24" - Light gray/brown silty clay, trace very fine sand, trace organics (twigs, roots), and slight odor
					K56243 ¹	12-24	
					K56244	24-36	24-48" - Dark gray/brown fine to medium sand, little coarse sand, trace fine gravel, silt, and shells, with dark gray/brown clayey size seam at 31-33" and a dark gray/brown silty fine sand seam at 46-48"
					K56245	36-48	
KRT 5-3	7.0	4.7	39	0.9 feet compaction	K56232 [K56233]	0-2	0-3" - Orange/brown fine sand, trace organics (leaves)
					K56234	2-6	3-26" - Gray brown fine sand, with dark gray brown organics, interbedded (leaves, twigs, roots, and wood), trace shells, silt, and plastic
					K56235	6-12	
					K56236	12-24	
					K56237 [K56238]	24-36	26-36" - Light gray/brown, silty clay, trace fine sand and organics (twigs and roots), slight odor
					K56239	36-39	36-39" - Dark gray/brown fine sand, trace medium to coarse sand, fine to medium gravel, silt and shells
KRT 12-8	1.5	4.6	39	approximately 1 foot compaction	K56226	0-2	0-31" - Gray brown interbedding, clayey silt and fine sand, trace organics (roots, twigs, and shells)
					K56227	2-6	
					K56228	6-12	
					K56229	12-24	
					K56230	24-36	
					K56231	36-39	31-39" - Dark gray/brown, organic clayey silt, trace organics (roots), some odor
KRT 16-8	1.0	1.4	1.0	0.3 feet compaction	K56247	0-2	0-2" - Dark gray loose silt and organics (leaves, twigs and wood)
					K56248	2-6	2-12" - Gray/brown silty clay, trace fine sand, organics (twigs), and medium gravel
					K56249	6-12	

See Notes on Page 2

**Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009**

Table B — Phase 2 Sediment Cores in Kalamazoo River — Cores Collected in January 2009

Notes:

All samples collected and processed on January 6, 2009

All samples analyzed by TestAmerica Laboratories, Inc for TCL VOCs, TCL SVOCs, TAL metals, and AVS/SEM

Duplicate samples are in brackets

¹MS/MSD performed on this sample

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table C — Staff Gage Data — Plainwell No. 2 Dam Area — January 2009

Date	SG-1			SG-2			SG-3		
	Time	Elevation (feet)	Measured Flow (cfs)	Time	Elevation (feet)	Measured Flow (cfs)	Time	Elevation (feet)	Measured Flow (cfs)
1/8/2009	1130	722 15	309	1030	723 04	497	930	725 64	1573

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table D — Phase 2 Sediment Cores in Portage Creek — Data Received in January 2009

Date Processed	Location	Sample ID	Interval (Inches)	Analysis	SDG
12/9/2008	PCT25-1	K55798	0-2	PCB/TOC/Grain Size	SRI056
		K55799	2-6	PCB/TOC/Grain Size	SRI056
		K55800	6-12	PCB/TOC/Grain Size	SRI056
		K55801	12-17	PCB/TOC/Grain Size	SRI056
		K55802	17-24	PCB/TOC/Grain Size	SRI056
		K55803	24-32	PCB/TOC/Grain Size	SRI056
		K55804	32-36	PCB/TOC/Grain Size	SRI057
		K55805	36-39	PCB/TOC/Grain Size	SRI057
	PCT26-9 ²	K55790	0-2	PCB/TOC/Grain Size	NA
		K55791	2-7	PCB/TOC/Grain Size	NA
		K55792	7-12	PCB/TOC/Grain Size	NA
		K55793	12-24	PCB/TOC/Grain Size	NA
		K55794	24-31	PCB/TOC/Grain Size	NA
		K55795	31-34	PCB/TOC/Grain Size	NA
		K55796	34-38	PCB/TOC/Grain Size	NA
		K55797	38-41	PCB/TOC/Grain Size	NA
	PCT31-2	K55833	0-2	PCB/TOC/Grain Size	SRI058
		K55834	2-6	PCB/TOC/Grain Size	SRI058
		K55835	6-11	PCB/TOC/Grain Size	SRI058
	PCT44-1	K55829	0-2	PCB/TOC/Grain Size	SRI057
		K55830	2-6	PCB/TOC/Grain Size	SRI058
		K55831	6-10	PCB/TOC/Grain Size	SRI058
		K55832	10-15	PCB/TOC/Grain Size	SRI058
	PCT47-1	K55823	0-2	PCB/TOC/Grain Size	SRI057
		K55824	2-6	PCB/TOC/Grain Size	SRI057
		K55825	6-8	PCB/TOC/Grain Size	SRI057
		K55826	8-12	PCB/TOC/Grain Size	SRI057
		K55827 ¹ [K56204]	12-18	PCB/TOC/Grain Size	SRI057 [SRI057]
		K55828	18-22	PCB/TOC/Grain Size	SRI057
	PCT48-4	K55782	0-2	PCB/TOC/Grain Size	SRI056
		K55783	2-6	PCB/TOC/Grain Size	SRI056
		K55784	6-12	PCB/TOC/Grain Size	SRI056
		K55785	12-23	PCB/TOC/Grain Size	SRI056
	PCT49-2	K55816	0-2	PCB, TCL/TAL, AVS/SEM, Grain Size	SRI058
		K55817	2-6	PCB, TCL/TAL, AVS/SEM	SRI058
		K55818	6-12	PCB, TCL/TAL, AVS/SEM	SRI058
		K55819	12-15	PCB, TCL/TAL, AVS/SEM	SRI058
		K55820	15-24	PCB, TCL/TAL, AVS/SEM	SRI058
		K55821	24-36	PCB, TCL/TAL, AVS/SEM	SRI058
		K55822	36-42	PCB, TCL/TAL, AVS/SEM	SRI058
	PCT50-6	K55836	0-2	PCB/TOC/Grain Size	SRI058
		K55837	2-7	PCB/TOC/Grain Size	SRI058
	PPT8-3	K55806	0-2	PCB/TOC/Grain Size	SRI057
		K55807	2-8	PCB/TOC/Grain Size	SRI057
		K55808	8-12	PCB/TOC/Grain Size	SRI057
		K55809 ¹	12-21	PCB/TOC/Grain Size	SRI056
		K55810 [K56203]	21-24	PCB/TOC/Grain Size	SRI057 [SRI057]
		K55811	24-31	PCB/TOC/Grain Size	SRI057

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table D — Phase 2 Sediment Cores in Portage Creek — Data Received in January 2009

Date Processed	Location	Sample ID	Interval (inches)	Analysis	SDG
12/9/2008 (Cont)	SD-27	K55786	0-2	PCB/TOC/Grain Size	SRI056
		K55787	2-6	PCB/TOC/Grain Size	SRI056
		K55788	6-12	PCB/TOC/Grain Size	SRI056
		K55789	12-17	PCB/TOC/Grain Size	SRI056
	SD-29	K55777	0-2	PCB/TOC/Grain Size	SRI056
		K55778	2-6	PCB/TOC/Grain Size	SRI056
		K55779	6-12	PCB/TOC/Grain Size	SRI056
		K55780	12-19	PCB/TOC/Grain Size	SRI056
		K55781	19-23	PCB/TOC/Grain Size	SRI056
	SD-31	K55812	0-2	PCB/TOC/Grain Size	SRI057
		K55813	2-8	PCB/TOC/Grain Size	SRI057
		K55814	8-12	PCB/TOC/Grain Size	SRI057
		K55815	12-15	PCB/TOC/Grain Size	SRI057
12/10/2008	PCT09-6	K55882	0-2	PCB/TOC/Grain Size	SRI061
		K55883	2-6	PCB/TOC/Grain Size	SRI061
		K55884	6-12	PCB/TOC/Grain Size	SRI061
		K55885	12-16	PCB/TOC/Grain Size	SRI061
	PCT19-7	K55848	0-2	PCB/TOC/Grain Size	SRI059
		K55849	2-6	PCB/TOC/Grain Size	SRI059
		K55850	6-12	PCB/TOC/Grain Size	SRI059
		K55851	12-24	PCB/TOC/Grain Size	SRI059
		K55852	24-34	PCB/TOC/Grain Size	SRI059
	PCT22-1	K55838	0-2	PCB/TOC/Grain Size	SRI059
		K55839	2-6	PCB/TOC/Grain Size	SRI059
		K55840	6-12	PCB/TOC/Grain Size	SRI059
		K55841 ¹ [K56206]	12-24	PCB/TOC/Grain Size	SRI059 [SRI059]
		K55842	24-34	PCB/TOC/Grain Size	SRI059
	PCT26-9	K55858	0-2	PCB, TCL/TAL, AVS/SEM, Grain Size	SRI058
		K55859	2-6	PCB, TCL/TAL, AVS/SEM	SRI058
		K55860	6-12	PCB, TCL/TAL, AVS/SEM	SRI058
		K55861 ¹ [K56205]	12-24	PCB, TCL/TAL, AVS/SEM	SRI058 [SRI058]
		K55862	24-29	PCB, TCL/TAL, AVS/SEM	SRI058
		K55863	29-36	PCB, TCL/TAL, AVS/SEM	SRI058
	PCT36-4	K55843	0-2	PCB/TOC/Grain Size	SRI059
		K55844	2-6	PCB/TOC/Grain Size	SRI059
		K55845	6-12	PCB/TOC/Grain Size	SRI059
		K55846	12-24	PCB/TOC/Grain Size	SRI059
		K55847 ¹ [K56207]	24-37	PCB/TOC/Grain Size	SRI059 [SRI059]
	PCT45-1	K55890	0-2	PCB/TOC/Grain Size	SRI061
		K55891	2-6	PCB/TOC/Grain Size	SRI061
		K55892	6-12	PCB/TOC/Grain Size	SRI061
		K55893	12-14	PCB/TOC/Grain Size	SRI061
	PCT51-1	K55897	0-2	PCB/TOC/Grain Size	SRI061
		K55898	2-6	PCB/TOC/Grain Size	SRI061
		K55899	6-9	PCB/TOC/Grain Size	SRI061
	PPT01-01	K55870	0-2	PCB/TOC/Grain Size	SRI060
		K55871	2-4	PCB/TOC/Grain Size	SRI060
		K55872	4-12	PCB/TOC/Grain Size	SRI060
		K55873	12-24	PCB/TOC/Grain Size	SRI060

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table D — Phase 2 Sediment Cores in Portage Creek — Data Received in January 2009

Date Processed	Location	Sample ID	Interval (inches)	Analysis	SDG
12/10/2008 (Cont)	PPT01-4	K55853	0-2	PCB/TOC/Grain Size	SRI059
		K55854	2-6	PCB/TOC/Grain Size	SRI059
		K55855	6-12	PCB/TOC/Grain Size	SRI059
		K55856	12-22	PCB/TOC/Grain Size	SRI060
		K55857 ¹ [K56208]	22-33	PCB/TOC/Grain Size	SRI060 [SRI060]
	SD-03	K55894	0-2	PCB/TOC/Grain Size	SRI061
		K55895	2-6	PCB/TOC/Grain Size	SRI061
		K55896	6-10	PCB/TOC/Grain Size	SRI061
	SD-14	K55886	0-2	PCB/TOC/Grain Size	SRI061
		K55887	2-7	PCB/TOC/Grain Size	SRI061
		K55888	7-12	PCB/TOC/Grain Size	SRI061
		K55889	12-15	PCB/TOC/Grain Size	SRI061
	SD-16A	K55874	0-2	PCB/TOC/Grain Size	SRI060
		K55875	2-6	PCB/TOC/Grain Size	SRI060
		K55876 ¹ [K56209]	6-12	PCB/TOC/Grain Size	SRI061 [SRI060]
		K55877	12-19	PCB/TOC/Grain Size	SRI060
	SD-18	K55878	0-2	PCB/TOC/Grain Size	SRI060
		K55879	2-6	PCB/TOC/Grain Size	SRI060
		K55880	6-12	PCB/TOC/Grain Size	SRI060
		K55881	12-18	PCB/TOC/Grain Size	SRI060
	SD-32	K55865	0-2	PCB/TOC/Grain Size	SRI060
		K55866	2-6	PCB/TOC/Grain Size	SRI060
		K55867	6-9	PCB/TOC/Grain Size	SRI060
		K55868	9-14	PCB/TOC/Grain Size	SRI060
		K55869	14-21	PCB/TOC/Grain Size	SRI060
12/11/2008	PCT9-1	K55947	0-2	PCB/TOC/Grain Size	SRI064
		K55948	2-6	PCB/TOC/Grain Size	SRI064
		K55949	6-12	PCB/TOC/Grain Size	SRI064
		K55950	12-25	PCB/TOC/Grain Size	SRI064
		K55951	25-34	PCB/TOC/Grain Size	SRI064
	PCT16-2	K55969	0-2	PCB/TOC/Grain Size	SRI065
		K55970	2-7	PCB/TOC/Grain Size	SRI065
		K55971	7-12	PCB/TOC/Grain Size	SRI065
		K55972	12-22	PCB/TOC/Grain Size	SRI065
	PCT17-3	K55900	0-2	PCB/TOC/Grain Size	SRI062
		K55901	2-6	PCB/TOC/Grain Size	SRI062
		K55902	6-12	PCB/TOC/Grain Size	SRI062
		K55903 ¹ [K56210]	12-23	PCB/TOC/Grain Size	SRI062 [SRI062]
	PCT33-1	K55952	0-2	PCB/TOC/Grain Size	SRI064
		K55953	2-6	PCB/TOC/Grain Size	SRI064
		K55954	6-12	PCB/TOC/Grain Size	SRI064
		K55955	12-16	PCB/TOC/Grain Size	SRI064
		K55956	16-22	PCB/TOC/Grain Size	SRI064
		K55957	22-36	PCB/TOC/Grain Size	SRI065
		K55958	36-39	PCB/TOC/Grain Size	SRI065
		K55959	39-48	PCB/TOC/Grain Size	SRI065
		K55960	48-52	PCB/TOC/Grain Size	SRI065

See Notes on Page 5.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table D — Phase 2 Sediment Cores in Portage Creek — Data Received in January 2009

Date Processed	Location	Sample ID	Interval (inches)	Analysis	SDG
12/11/2008 (Cont)	PCT42-3	K55941	0-2	PCB/TOC/Grain Size	SRI064
		K55942	2-6	PCB/TOC/Grain Size	SRI064
		K55943	6-12	PCB/TOC/Grain Size	SRI064
		K55944	12-24	PCB/TOC/Grain Size	SRI064
		K55945	24-36	PCB/TOC/Grain Size	SRI064
		K55946	36-46	PCB/TOC/Grain Size	SRI064
	PCT46-1	K55961	0-2	PCB/TOC/Grain Size	SRI065
		K55962	2-6	PCB/TOC/Grain Size	SRI065
		K55963	6-12	PCB/TOC/Grain Size	SRI065
		K55964	12-16	PCB/TOC/Grain Size	SRI065
	PCT53-9	K55973	0-2	PCB/TOC/Grain Size	SRI065
		K55974	2-6	PCB/TOC/Grain Size	SRI065
		K55975	6-12	PCB/TOC/Grain Size	SRI065
		K55976	12-17	PCB/TOC/Grain Size	SRI066
	SD-04	K55981	0-2	PCB/TOC/Grain Size	SRI066
		K55982	2-7	PCB/TOC/Grain Size	SRI066
	SD-15	K55965	0-2	PCB/TOC/Grain Size	SRI065
		K55966	2-8	PCB/TOC/Grain Size	SRI065
		K55967	8-12	PCB/TOC/Grain Size	SRI065
		K55968	12-23	PCB/TOC/Grain Size	SRI065
	SD-20	K55910	0-2	PCB/TOC/Grain Size	SRI062
		K55911	2-6	PCB/TOC/Grain Size	SRI062
		K55912	6-10	PCB/TOC/Grain Size	SRI062
		K55913 ¹ [K56211]	10-24	PCB/TOC/Grain Size	SRI063 [SRI062]
		K55914	24-37	PCB/TOC/Grain Size	SRI062
		K55915	37-40	PCB/TOC/Grain Size	SRI062
	SD-21	K55932	0-2	PCB/TOC/Grain Size	SRI063
		K55933	2-6	PCB/TOC/Grain Size	SRI063
		K55934	6-12	PCB/TOC/Grain Size	SRI063
		K55935	12-24	PCB/TOC/Grain Size	SRI063
		K55936	24-27	PCB/TOC/Grain Size	SRI063
		K55937 ¹ [K56213]	27-36	PCB/TOC/Grain Size	SRI065 [SRI064]
		K55938	36-40	PCB/TOC/Grain Size	SRI063
		K55939	40-48	PCB/TOC/Grain Size	SRI064
		K55940	48-54	PCB/TOC/Grain Size	SRI064
	SD-22	K55923	0-2	PCB/TOC/Grain Size	SRI063
		K55924	2-6	PCB/TOC/Grain Size	SRI063
		K55925	6-13	PCB/TOC/Grain Size	SRI063
		K55926 ¹ [K56212]	13-24	PCB/TOC/Grain Size	SRI064 [SRI063]
		K55927	24-27	PCB/TOC/Grain Size	SRI063
		K55928	27-36	PCB/TOC/Grain Size	SRI063
		K55929	36-43	PCB/TOC/Grain Size	SRI063
		K55930	43-48	PCB/TOC/Grain Size	SRI063
		K55931	48-54	PCB/TOC/Grain Size	SRI063
	SD-28	K55977	0-2	PCB/TOC/Grain Size	SRI066
		K55978	2-6	PCB/TOC/Grain Size	SRI066
		K55979	6-12	PCB/TOC/Grain Size	SRI066
		K55980	12-17	PCB/TOC/Grain Size	SRI066

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table D — Phase 2 Sediment Cores in Portage Creek — Data Received in January 2009

Date Processed	Location	Sample ID	Interval (Inches)	Analysis	SDG
12/11/2008 (Cont)	SD-34	K55916	0-2	PCB/TOC/Grain Size	SRI062
		K55917	2-6	PCB/TOC/Grain Size	SRI062
		K55918	6-12	PCB/TOC/Grain Size	SRI062
		K55919	12-24	PCB/TOC/Grain Size	SRI063
		K55920	24-26	PCB/TOC/Grain Size	SRI063
		K55921	26-36	PCB/TOC/Grain Size	SRI063
		K55922	36-39	PCB/TOC/Grain Size	SRI063
	SD-35	K55904	0-2	PCB/TOC/Grain Size	SRI062
		K55905	2-6	PCB/TOC/Grain Size	SRI062
		K55906	6-12	PCB/TOC/Grain Size	SRI062
		K55907	12-19	PCB/TOC/Grain Size	SRI062
		K55908	19-24	PCB/TOC/Grain Size	SRI062
		K55909	24-29	PCB/TOC/Grain Size	SRI062
12/12/2008	PCT03-3	K56006	0-2	PCB/TOC/Grain Size	NR
		K56007	2-6	PCB/TOC/Grain Size	NR
		K56008	6-12	PCB/TOC/Grain Size	NR
		K56009	12-15	PCB/TOC/Grain Size	NR
	PCT24-1	K55994	0-2	PCB/TOC/Grain Size	SRI066
		K55995	2-6	PCB/TOC/Grain Size	NR
		K55996	6-12	PCB/TOC/Grain Size	NR
		K55997	12-25	PCB/TOC/Grain Size	NR
		K55998	25-31	PCB/TOC/Grain Size	NR
		K55999	31-35	PCB/TOC/Grain Size	NR
	PPT10-2	K56000	0-2	PCB/TOC/Grain Size	NR
		K56001	2-7	PCB/TOC/Grain Size	NR
		K56002	7-12	PCB/TOC/Grain Size	NR
		K56003 ¹ [K56215]	12-21	PCB/TOC/Grain Size	NR
		K56004	21-23	PCB/TOC/Grain Size	NR
		K56005	23-26	PCB/TOC/Grain Size	NR
	SD-25	K55983	0-2	PCB/TOC/Grain Size	SRI066
		K55984	2-6	PCB/TOC/Grain Size	SRI066
		K55985	6-12	PCB/TOC/Grain Size	SRI066
		K55986	12-22	PCB/TOC/Grain Size	SRI066
		K55987	22-26	PCB/TOC/Grain Size	SRI066
		K55988	26-36	PCB/TOC/Grain Size	SRI066
		K55989	36-48	PCB/TOC/Grain Size	SRI066
		K55990	48-58	PCB/TOC/Grain Size	SRI066
		K55991 ¹ [K56214]	58-72	PCB/TOC/Grain Size	SRI066 [SRI066]
		K55992	72-79	PCB/TOC/Grain Size	SRI066
		K55993	79-86	PCB/TOC/Grain Size	SRI066

Notes:

NA - Not analyzed

NR - Data not received by January 31, 2009

All samples analyzed by TestAmerica Laboratories, Inc. Percent solids analyzed for in all samples

Duplicate samples are in brackets

¹ MS/MSD performed on this sample

² The samples from PCT26-9 processed on December 9, 2008, were not analyzed. The location was resampled and processed on December 10, 2008

Kalamazoo River Study Group
 Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
 Supplemental Remedial Investigations/Feasibility Studies
 Monthly Report #23, January 2009

**Table E — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in
 October and November 2008**

Sample I.D.: Location ID: Sample Date:	Units	K30996 10/12/08 Farmer Street	K30997 10/12/08 10th Street	K30998 10/14/08 Farmer Street	K30999 10/14/08 10th Street	K31000 10/16/08 Farmer Street	K31001 10/16/08 10th Street	K31002 10/18/08 Farmer Street
PCB Aroclors								
Aroclor-1016	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1221	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1232	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1242	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1248	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1254	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Aroclor-1260	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Total PCBs	µg/L	0 047 U	0 047 U	0 047 U	0 048 U	0 048 U	0 047 U	0 048 U
Miscellaneous								
Total Suspended Solids	mg/L	9 2	7	1 3	4 1	1 2	5 2	1 6

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

**Table E — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in
October and November 2008**

Sample I.D.: Location ID: Sample Date:	Units	K31003 10/18/08 10th Street	K31004 10/20/08 Farmer Street	K31005 10/20/08 10th Street	K31006 10/22/08 Farmer Street	K31007 10/22/08 10th Street	K31008 10/24/08 Farmer Street	K31009 10/24/08 10th Street
PCB Aroclors								
Aroclor-1016	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1221	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1232	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1242	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1248	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1254	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Aroclor-1260	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Total PCBs	µg/L	0.047 U	0.050 U	0.051 U	0.047 U	0.050 U	0.062 U	0.051 U
Miscellaneous								
Total Suspended Solids	mg/L	5.2	2.3	3	0.8	1.6	0.6	2.3

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

**Table E — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in
October and November 2008**

Sample I.D.: Location ID: Sample Date:	Units	K31010 10/26/08 Farmer Street	K31011 10/26/08 10th Street	K31013 10/28/08 Farmer Street	K31014 10/28/08 10th Street	K31015 10/30/08 Farmer Street	K31016 10/30/08 10th Street	K31017 11/01/08 Farmer Street
PCB Aroclors								
Aroclor-1016	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1221	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1232	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1242	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1248	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1254	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Aroclor-1260	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Total PCBs	µg/L	0.052 U	0.053 UJ	0.047 U	0.051 U	0.051 U	0.051 U	0.047 U
Miscellaneous								
Total Suspended Solids	mg/L	0.8	3.1	5.6	3.2	3.7	2.4	1.9

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

**Table E — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in
October and November 2008**

Sample I.D.: Location ID: Sample Date:	Units	K31018 11/01/08 10th Street	K31019 11/03/08 Farmer Street	K31020 11/03/08 10th Street	K31021 11/05/08 Farmer Street	K31022 11/05/08 10th Street	K31023 11/07/08 Farmer Street	K31024 11/07/08 10th Street
PCB Aroclors								
Aroclor-1016	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1221	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1232	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1242	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1248	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1254	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Aroclor-1260	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Total PCBs	µg/L	0 049 U	0 051 U	0 050 U	0 051 U	0 051 U	0 051 U	0 051 U
Miscellaneous								
Total Suspended Solids	mg/L	2 1	0 9	2 1	1	1 8	2 1	2 3

See Notes on Page 5

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #23, January 2009

Table E — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in
October and November 2008

Sample I.D.:		K31025	K31026	K31027	K31028
Location ID:		11/09/08	11/09/08	11/11/08	11/11/08
Sample Date:	Units	Farmer Street	10th Street	Farmer Street	10th Street
PCB Aroclors					
Aroclor-1016	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1221	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1232	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1242	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1248	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1254	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Aroclor-1260	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Total PCBs	µg/L	0 048 U	0 047 U	0 053 U	0 051 U
Miscellaneous					
Total Suspended Solids	mg/L	4.8	2.8	0.6	2

Notes:

J - The compound was positively identified, however, the associated numerical value is an estimated concentration only

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

NA - Not analyzed

Duplicate results are in brackets

Data received in November 2008